

ABSTRACT OF THE INVENTION

Heat-activated adhesive tape has a backing comprising 88-92% acrylic polymer containing: 35-45% of a first alkyl acrylate monomer with alkyl groups containing 4 to 12 carbon atoms, 30-40% of a second alkyl acrylate monomer with alkyl groups containing 4 to 12 carbon atoms, 6-10% a first monoethylenically unsaturated polar copolymerizable monomer, 1-2% a second monoethylenically unsaturated polar copolymerizable monomer, 0.3-0.5% photoinitiator, 1-2% filler, 0.05-0.07% crosslinker/chain extender, and 8-12% hollow glass microspheres; and heat-activated adhesive layer on at least one side. A pressure-sensitive adhesive may be on the other side. A method for preparing the adhesive tape involves partially polymerizing an oligomer, forming a coating composition, coating the composition onto a heat-activated adhesive disposed on a liner with a second liner, which may have a heat-activated adhesive, contiguously covering the first liner, and polymerizing the composition on the liners between two banks of ultraviolet light while cooling to form a tape.